### PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:	PCT							
Cohausz & Florack								
Patent- und Rechtsanwälte (24)	WRITTEN OPINION OF THE							
	INTERNATIONAL PRELIMINARY							
D-40211 Dusseldorf	EXAMINING AUTHORITY							
l								
Tyskland Einger 11 APR. 2005	(PCT Rule 66)							
060605								
Dranga Crossy Geschon	D . C							
Mg by	Date of mailing (day/month/year) 1 6 -04- 2005							
Applicant's or agent's file reference	REPLY DUE within 60 days from							
WY/sd 030345WO	the above date of mailing							
International application No. International filing date (	day/month/year) Priority date (day/month/year)							
PCT/IB 2003/002184 10-06-2003								
International Patent Classification (IPC) or both national classification	on and IPC							
H04B1/10	·							
Applicant								
Nokia Corporation et al								
The written opinion established by the International Sea	rching Authority:							
is is	is not							
considered to be a written opinion of the International P								
K-7	s indications relating to the following items:							
Box No. I Basis of the opinion								
Box No. II Priority								
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability								
Box No. IV Lack of unity of invention	Box No. IV Lack of unity of invention							
	No. V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain documents cited								
Box No. VII Certain defects in the international appl	ication							
Box No. VIII Certain observations on the international	al application							
3. The applicant is hereby invited to reply to this opinion.	·							
When? See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to grant an extension, see Rule 66.2(e).								
How? By submitting a written reply, accompanied, where For the form and the language of the amendments,	appropriate, by amendments, according to Rule 66.3. see Rules 66.8 and 66.9.							
Also For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4bis.  For an informal communication with the examiner, see Rule 66.6.								
For an additional opportunity to submit amendments, see Rule 66.4.								
If no reply is filed, the international preliminary examination	report will be established on the basis of this opinion.							
4. The final date by which the international preliminary report on patentability								
(Chapter II of the PCT) must be established according to Rule 69.2 is: 10-10-2005								
Name and mailing address of the IPEA/SE	Authorized officer							
Patent- och registreringsverket								
Box 5055								
S-102 42 STOCKHOLM	Peder Gjervaldsaeter /LR							
Facsimile No. 46 8 667 72 88	Telephone No. 46 8 782 25 00							

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Form PCT/IPEA/408 (cover sheet) (January 2004)

# WRITTEN OPINION OF THE INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

International application No.

PCT/IB 2003/002184

Box	No. I	Ba	sis of the opinion
1.	With r	egard to it was fi	the language, this opinion has been established on the basis of the international application in the language in led, unless otherwise indicated under this item.
			inion is based on a translation from the original language into the following language, sthe language of a translation furnished for the purposes of:
			international search (under Rules 12.3 and 23.1(b))
			publication of the international application (under Rule 12.4)
			international preliminary examination (under Rules 55.2 and/or 55.3)
2.	which	have be nally file	
			emational application as originally filed/furnished
		the des	cription:
		pages	as originally filed/furnished
	•	pages	received by this Authority on received by this Authority on
		pages	
	Ш	the cla	as originally filed/furnished
		pages	as amended (together with any statement) under Article 19
I		pages	received by this Authority on
·		pages	received by this Authority on
		the dra	wings:
		pages	as originally filed/furnished
		pages	received by this Authority on
		pages	received by this Authority on
		a seque	ence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.	<u> </u>	The an	nendments have resulted in the cancellation of:
			the description, pages
			the claims, Nos.
			the drawings, sheets/figs
·			the sequence listing (specify):
			any table(s) related to the sequence listing (specify):
4.			pinion has been established as if (some of) the amendments had not been made, since they have been considered to ond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
			the description, pages
			the claims, Nos.
			the drawings, sheets/figs
			the sequence listing (specify):
		同	any table(s) related to the sequence listing (specify):
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WRITTEN OPINION OF THE INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

International application No.

PCT/IB 2003/002184

Box No. V	Reasoned statement un citations and explanati	nder Rule 66.2( lons supporting	a)(ii) wi such st	th rega atemen	rd to no t	velty, i	aventive	step or in	dustrial a	applicability;
1. Statemen	t			•						
Nove	elty (N)	Claims Claims	1 .	13.	15.	17.	24.	26		<del></del>
Inve	ntive step (IS)	Claims	<u></u>		· 				· · · · · · · · · · · · · · · · · · ·	
		Claims	1-2	7			•			· · · · · · · · · · · · · · · · · · ·
Indu	strial applicability (IA)	Claims Claims							-	
-					•	•				
2. Citations	and explanations:								<del></del>	
The c	laimed invent	ion								•
recei	laimed invent ved in a rece ame device.									
recei	oroblem is some ver to a hing interest exceed gnal is transf	gher va s a cert	lue	whe	n t	he j	powe	r lev	el o	n the of the e when
Prior	art	· .								
were D1: U	ne Internatio cited: S 6 442 375 P 1 079 533	nal Sea	rch	Repo	rt	the	foli	Lowing	doc	uments
D3: U D4: E	S 6 144 473 P 1 122 554									· .
D6: E	P 1 253 720 P 1 091 497 S 5 691 978	·				-				
	S 6 107 960									
recei a si monit begin gener	escribes a syver that is congle device.  ors the signum of a state a controller of a controlle	o-locate Accord al from transmit rol si	d wi ing the int gnal	th a to tra terva th	n in D1, ansm al. at	terf an itte The make	erin AG( r to AG(	g training training continuous co	nsmit trol Lcipat trol AGC	ter in logic te the logic module

International application No.

## WRITTEN OPINION OF THE INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT/IB 2003/002184

#### Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box V

AGC control logic thereby makes the GPS receiver less sensitive to the effects of the transmitter, since the gain value does not deviate from normal operation values, which must then be recovered when the interference from the transmitter ceases. (Se abstract and column 5, line 63 - column 6, line 18.)

D2 describes parallel operation in a device comprising both a receiver (GPS) and a transmitter (GSM). To maintain fully operational reception in the device, the input operation of the receiver is modified when the transmitter is transmitting. The receiver operation is modified by the use of a low noise amplifier having at least two biasing conditions. Different biasing conditions are used when interference transmitter is present and when it is not present. transmitter interference is present biasing a condition related to a gain adjustment improving blocking performance is When no transmitter interference is present normal biasing operation is used. (See claims 1-5 and abstract.)

Documents D3-D8 represent the prior art. The claimed invention is not considered to be anticipated by these documents.

### Statement of reason

Claims 1, 13, 15, 17, 24 and 26

It is showed in D2 that interference in a GPS receiver can be reduced by adjusting the gain of a variable amplifier. This is done by changing biasing conditions for the reception amplifier when the transmitter in the device is transmitting.

This differs from what is claimed in claims 1, 13, 15, 17, 24 and 26 only in that the claims state that the received signal is attenuated and that D2 states that the amplification of the received signal is altered. To reduce the amplification of a received signal can however be seen as one of a number of possible ways to attenuate a signal. It is also said in the application, for example in claim 24, that attenuation is performed by reducing the amplification applied to the signal.

Since reducing the amplification of a signal is a kind of attenuation (as stated in the application itself) document D2 describes what is claimed in claims 1, 13, 15, 17, 24 and 26.

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International application No.

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#### Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box V

What is claimed in these claims is thus not novel in view of what is showed in D2.

Claims 2-12, 14, 16, 18-23, 25 and 27

What is claimed in these claims is either known from D2 or is considered to only constitute details obvious for a person skilled in the art. What is claimed in these claims is therefore not considered to involve an inventive step.

Claims 1-27

What is claimed in claims 1-27 is also not considered to involve an inventive step over what is known from document D1.